

V-SCREEN NEXT Technical Data



1. Recommended Tension Values (*1)

[1] V-NEXT 420-020

Mesh Code	Breaking Tension (N/cm)		Recommended Tension Value (N/cm)		
	Warp	Weft	Standard Tension	Advanced Tension	Expert Tension
VN420-020	46.4	43.2	29.0	32.0	35.0

[2] V-NEXT 380-020

Mesh Code	Breaking Tension (N/cm)		Recommended Tension Value (N/cm)		
	Warp	Weft	Standard Tension	Advanced Tension	Expert Tension
VN380-020	43.0	42.0	29.0	32.0	34.0

[3] V-NEXT 380-24

Mesh Code	Breaking Tension (N/cm)		Recommended Tension Value (N/cm)		
	Warp	Weft	Standard Tension	Advanced Tension	Expert Tension
VN380-024	50.0	50.0	30.0	35.0	38.0

[4] V-NEXT 330-24

Mesh Code	Breaking Tension (N/cm)		Recommended Tension Value (N/cm)		
	Warp	Weft	Standard Tension	Advanced Tension	Expert Tension
VN330-024	50.0	50.0	30.0	35.0	38.0

*1) Recommended tension value

Standard tension: Good for all printers using a mechanical stretching device, or less sophisticated printing machine without the additional controls that high modulus polyester mesh would require. Also the correct tension for most large format screens.

Advanced tension: Requires stable frames, an experienced technician, and an advanced stretching device. Operators will need to use minimum off-contact during the printing process.

Expert tension: Expert screen makers and machine operators can achieve these levels with state-of-the-art equipment and great care. Minimum off-contact is required during the printing process. Some printers experiment at these tensions before using lower tensions on their production screens.

Note: The above breaking tensions are measured using a 1000mm x 1000mm mechanical stretching device, and the recommended tensions are calculated from those breaking tensions.

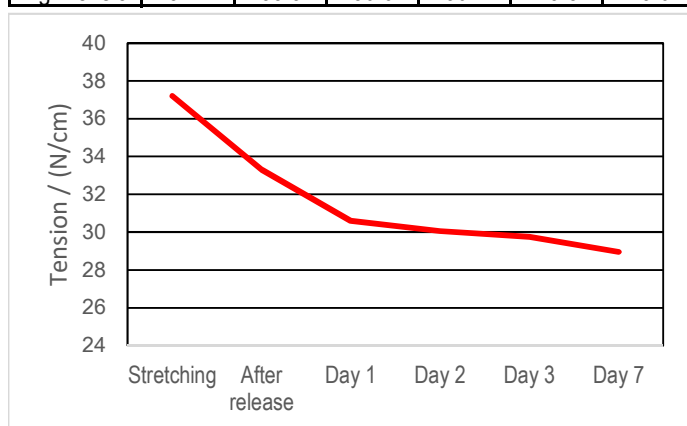
NBC is not responsible for accidental damage to the mesh or other problems caused by improper stretching.

2. Reference Data: Tension Loss After Stretching

[1] V-NEXT 420-020

Parameters Frame size:	320mm X 320mm
Stretching angle:	22.5 degrees
Rest :	5 minutes
Drying :	7 minutes

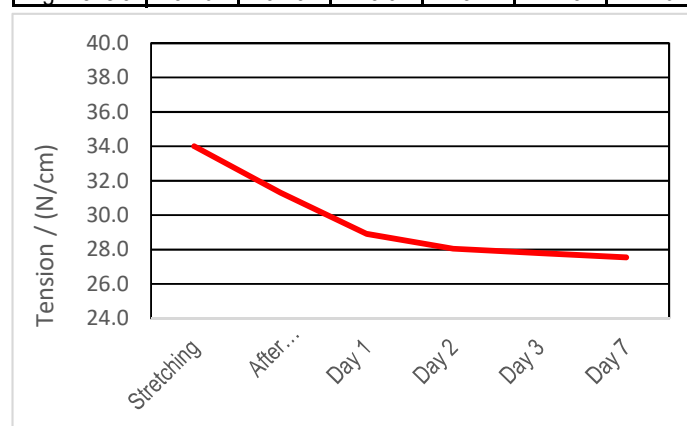
Mesh Code	Time					
	Stretching	After release	Day 1	Day 2	Day 3	Day 7
VN420-020						
Avg. Tension	37.2	33.3	30.6	30.1	29.8	29.0



[2] V-NEXT 380-020

Parameters Frame size:	320mm X 320mm
Stretching angle:	22.5 degrees
Rest :	5 minutes
Drying :	7 minutes

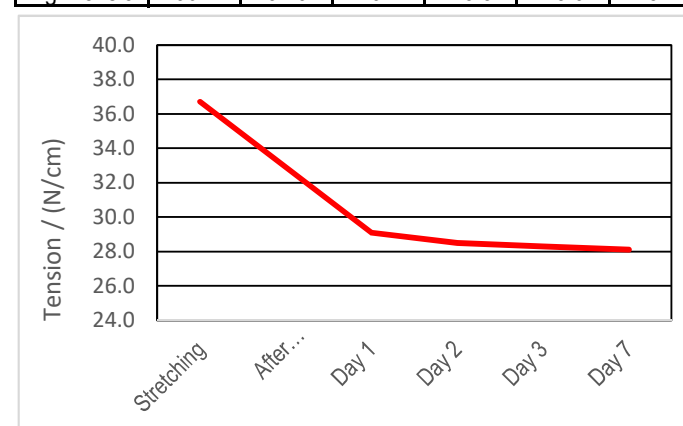
Mesh Code	Time					
	Stretching	After release	Day 1	Day 2	Day 3	Day 7
VN380-020						
Avg. Tension	34.0	31.3	28.9	28.1	27.8	27.6



[3] V-NEXT 380-24

Parameters Frame size:	320mm X 320mm
Stretching angle:	22.5 degrees
Rest :	5 minutes
Drying :	7 minutes

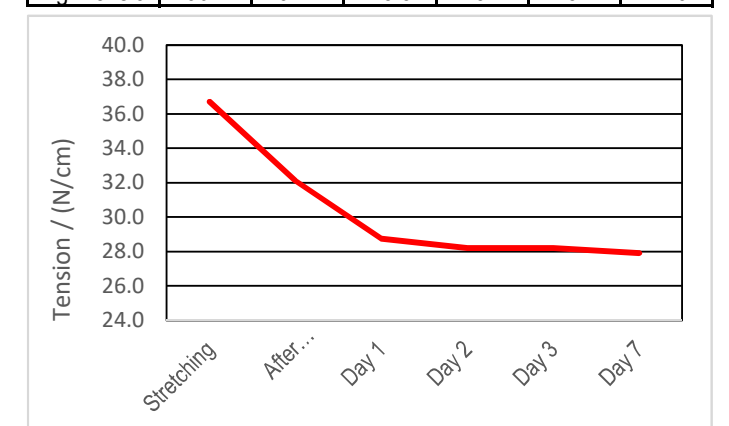
Mesh Code	Time					
	Stretching	After release	Day 1	Day 2	Day 3	Day 7
VN380-024						
Avg. Tension	36.7	32.9	29.1	28.5	28.3	28.1



[4] V-NEXT 330-24

Parameters Frame size:	320mm X 320mm
Stretching angle:	22.5 degrees
Rest :	5 minutes
Drying :	7 minutes

Mesh Code	Time					
	Stretching	After release	Day 1	Day 2	Day 3	Day 7
VN330-024						
Avg. Tension	36.7	32.1	28.8	28.2	28.2	27.9



3. Additional Tips

[1] Careful handling is required. Do not fold V-Screen NEXT to avoid any damage to the extremely fine threads.

[2] A 5 - 10 minute rest period before gluing is highly recommended in order to allow the screen tension to stabilize.

[3] In order to minimize screen tension loss, a work environment of 35°C/95°F or less is highly recommended for the entire process.

[4] An initial stretching tension of 28 N/cm or lower may result in larger screen tension loss.